

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Chad A. MIRKIN et al. Applicant:

Title:

PEPTIDE AND PROTEIN ARRAYS AND DIRECT-WRITE LITHOGRAPHIC PRINTING OF PEPTIDES AND PROTEINS

Appl. No.:

10/788,414

Filing Date: 03/01/2004

Examiner:

Leon Yun Bon Lum

Art Unit:

1641

## INFORMATION DISCLOSURE STATEMENT **UNDER 37 CFR §1.56**

Mail Stop IDS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie art reference against the claims of the present application.

## TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

## RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date

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Attorney for Applicant Registration No. 40,153

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	Substitute fo	or form 1449B	/PTO		Complete if Known	70
	INFORMATI	ON DISCLO	SURE	Application Number	10/788,414	007-14-2005
	STATEMEN	T BY APPLI	CANT	Filing Date	03/01/2004	1 0Cl 1 4 2003 M
	Date Submitte	d: October 1	1 2005	First Named Inventor	Chad A. Mirkin	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Date Submitte	u. October 1	1, 2005	Group Art Unit	1641	The st
	(use as many s	sheets as ne	cessary)	Examiner Name	Leon Yun Bon Lum	PANCALIA
Sheet	1	of	3	Attorney Docket Number	083847-0235	

		U.S. Patent Document			Date of Publication of	Pages, Columns, Lines, Where Relevant
Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
	B1	5,039,458		Braatz et al.	08-13-1991	
	B2	5,747,334		Kay et al.	05-05-1998	-
	В3	5,858,801		Brizzolara	01-12-1999	
	B4	6,103,479		Taylor	08-15-2000	
	B5	6,270,946		Miller	08-07-2001	
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	B7	6,635,311		Mirkin et al.	10-21-2003	
	B8	6,642,129		Liu et al.	11-04-2003	
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent D		Ocument Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
	B18	wo	96/31625		Cytogen	10-10-1996		
	B19	wo	00/04390		Zyomyx, Inc.	01-27-2000		
	B20	wo	02/45215	A2	Mirkin et al.	06-06-2002		

	NON PATENT LITERATURE DOCUMENTS						
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	B21	AGARWAL, G., et al., "Dip-Pen Nanolithography in Tapping Mode", J. Am. Chem. Soc., vol. 125, pp. 580-583 (2003).					
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Examiner Signature	/Nelson Yang/ (07/06/2010)	Date Considered

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	INFORMATI	ON DISCLO	SURE	Application Number	10/788,414	
	STATEMEN	T BY APPL	CANT	Filing Date	03/01/2004	
	5 4 6 1		14 000E	First Named Inventor	Chad A. Mirkin	
	Date Submitte	ea: October 1	11, 2005	Group Art Unit	1641	
	(use as many :	sheets as ne	cessary)	Examiner Name	Leon Yun Bon Lum	
Sheet	2	of	3	Attorney Docket Number	083847-0235	

	_	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ <sup>6</sup>
	B25	HARDER, P., et al., "Molecular Conformation in Oligo(ethylene glycol)-Terminated Self-Assembled Monolayers on Gold and Silver Surfaces Determines Their Ability To Resist Protein Adsorption", J. Phys. Chem. B, vol. 102, pp. 426-436 (1998).	
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	B32	LOCKHART, D. J., et al., "Genomics, gene expression and DNA arrays", NATURE, vol. 405, PP. 827-836 (2000).	
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-	B34	MADOU, M. J., Fundamentals of Microfabrication, The Science of Miniaturization, 2 <sup>nd</sup> Ed., CRC Press, pp. 68-69 (Protein patterning) 2002	
	B35	MADOU, M. J., Fundamentals of Microfabrication, The Science of Miniaturization, 2 <sup>nd</sup> Ed., CRC Press, pp. 159-169 (deposition & arraying methods of organic layers in BIOMEMS). 2002	
	B36	MADOU, M. J., Fundamentals of Microfabrication, The Science of Miniaturization, 2 <sup>nd</sup> Ed., CRC Press, pp. 435-439 (primary secondary tertiary and quaternary structures and synthesis by ribosomes), 2002	
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	B43	SCHENA, M., et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray", Science, vol. 270, pp. 467-470 (1995).	
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	B45	SERVICE, R., "Biology Offers Nanotechs A Helping Hand", Science, vol. 298, pp. 2322-2323 (2002).	

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Substitute for form 1449B/PTO Complete if Known INFORMATION DISCLOSURE **Application Number** 10/788,414 STATEMENT BY APPLICANT 03/01/2004 Filing Date First Named Inventor Chad A. Mirkin Date Submitted: October 11, 2005 1641 Group Art Unit (use as many sheets as necessary) **Examiner Name** Leon Yun Bon Lum Attorney Docket Number 083847-0235 Sheet

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-	B46	WADU-MESTHRIGE, K., et al., "Fabrication of Nanometer-Sized Protein Patterns Using Atomic Force Microscopy and Selective Immobilization", Biophys. J., vol. 80, pp. 1891-1899 (2001).	
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